



PATENT ABSTRACTS OF JAPAN

(11) Publication number: **06091865 A**(43) Date of publication of application: **05.04.1994**

(51) Int. Cl. **B41J 2/045**
B41J 2/055

(21) Application number: **04247679**
 (22) Date of filing: **17.09.1992**

(71) Applicant: **SEIKOSHA CO LTD**
 (72) Inventor: **KONDO YOSHIHIRO**

(54) **INK JET HEAD**

(57) Abstract:

PURPOSE: To obtain an ink jet head having a shape memory alloy with an improved reliability, a reduced size, and an enhanced density.

CONSTITUTION: A pressurizing vibration body 4 formed by securely laminating a shape memory alloy 2 on a shape regulating body 3 is regulated in shape to be deflected upward by the shape regulating body 3. By heating the pressurizing vibration body 4 by a drive circuit 5, the shape memory alloy 2 reaches a transformation temperature and changes in shape to be deflected downward, thus reducing a volume of an

ink chamber 1 to pressurize ink liquid inside to jet the ink liquid from a nozzle 7. By interrupting the heating by the drive means, the pressurizing vibration body 4 is regulated into the unheated shape by the shape regulating body 3. By repeating the aforesaid operation, printing is conducted.

COPYRIGHT: (C)1994,JPO&Japio

